

## **ABSTRACT**

### **A DEVICE AND METHOD FOR DETECTING ENVIRONMENTAL CHANGE OF AUTOMOBILE WINDSHIELD**

[0091] A device and method for detecting environmental change of automobile windshield, the device comprises a plane capacitor which is disposed on the inner surface of the windshield, the two electrodes of said plane capacitor are disposed on the same plane, the total area of said two electrodes is less than 100 sq. centimeters, said plane capacitor is a sense element which detects the environmental change of windshield and environmental change after operating, said plane capacitor is electrically connected with a sensor detection circuit, the change signals in capacitance which is affected by the environmental is transmitted to said sensor detection circuit, and said sensor detection circuit is responsive to the change of capacitance to produce a control signal to control equipment work. The structure of this device is simple, and is able to overcome various defects including small measurement area, inability of detecting rainwater thickness, vulnerable to disturbance of pollutants, high installation requirements, low adaptability and high cost that exist in current photoelectric and plane capacitance type detecting devices.